

**PROGRAM PLANNING FORM 2021-2023**

**PROGRAM NAME:** Electrical Maintenance and Construction  
**Credits Required for Graduation:** Diploma - 74 credits

**Student:** \_\_\_\_\_  
**Date:** \_\_\_\_\_  
**Revised:** 3/10/2021

**FIRST YEAR**

<b>COURSE #</b>	<b>COURSE TITLE</b>	<b>CREDITS #(Lec/Lab)</b>	<b>SEMESTER</b>	<b>GRADE</b>
<b><u>FALL SEMESTER - 2021</u></b>				
ELM1005	Electrical Math Applications	2 cr 2/0	_____	_____
ELM1101	DC Electrical Theory and Applications	5 cr 3/2	_____	_____
ELM1201	AC/DC Electrical Circuits and Calculations	5 cr 3/2	_____	_____
ELM1301	Residential Wiring and Code 1	5 cr 2/3	_____	_____
CAPP1510	Computer Applications	1 cr 0/1	_____	_____
		18 credits		

**SPRING SEMESTER - 2022**

ELM1102	AC Electrical and Electronic Theory and Applications *	6 cr 3/3	_____	_____
ELM1202	Transformers, Generators, Alternators and Motors *	6 cr 3/3	_____	_____
ELM1302	Residential Wiring and Code 2 *	6 cr 2/4	_____	_____
ELM1006	Algebra for Electricians *	1 cr 0/1	_____	_____
		19 credits		

**SECOND YEAR**

<b>COURSE #</b>	<b>COURSE TITLE</b>	<b>CREDITS #(Lec/Lab)</b>	<b>SEMESTER</b>	<b>GRADE</b>
<b><u>FALL SEMESTER - 2022</u></b>				
ELM2101	Print Reading and Lighting Systems *	5 cr 2/3	_____	_____
ELM2201	AC/DC Motor Control 1 *	5 cr 2/3	_____	_____
COMM1200	Communications for Careers	3 cr 3/0	_____	_____
ELM2313	Renewable Energy Systems and a House Project	6cr 2.5 /3.5	_____	_____
		19 credits		

**SPRING SEMESTER - 2023**

ELM2102	Commercial/Industrial Wiring Methods *	5 cr 2/3	_____	_____
ELM2202	AC/DC Motor Controls 2 *	5 cr 2/3	_____	_____
ELM2404	Drones in Industry	1 cr 0/1	_____	_____
PSYC1010	Psychology of Adjustment	2 cr 2/0	_____	_____
ELM2311	Power Limited Circuits & Instrumentation *	5 cr 2/3	_____	_____
		18 credits		

**Electives:**

ELM 1400	Attendance Make-up Project	1 cr	_____	_____
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*All Electrical Maintenance classes listed above are required to be student/instructor contact classes.  
 (no online classes are accepted)*

\* - Denotes Prerequisites

**Articulation Agreement with Minnesota State University, Moorhead.**